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A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C03C27/06 C03C8/14

C04B37/04

H01J9/26

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal

and the state of the migrant pageages	Relevant to claim No.
Citation of document, with indication, where appropriate, or the resevant passages	11000141111
DE 201 17 475 U (POESL RUDOLF) 18 April 2002 (2002-04-18) page 1, last paragraph	1-4,6,7
US 2002/035852 A1 (LONGOBARDO ANTHONY V ET AL) 28 March 2002 (2002-03-28) page 4, paragraph 60	1–17
US 6 212 852 B1 (TSAI CHUN-HUI) 10 April 2001 (2001-04-10) claims 1,7,13	1–17
WO 01 23700 A (GUARDIAN INDUSTRIES) 5 April 2001 (2001-04-05) page 21, line 21 -page 22, line 7	1-17
-/	
	18 April 2002 (2002-04-18) page 1, last paragraph US 2002/035852 A1 (LONGOBARDO ANTHONY V ET AL) 28 March 2002 (2002-03-28) page 4, paragraph 60 US 6 212 852 B1 (TSAI CHUN-HUI) 10 April 2001 (2001-04-10) claims 1,7,13 WO 01 23700 A (GUARDIAN INDUSTRIES) 5 April 2001 (2001-04-05) page 21, line 21 -page 22, line 7

X Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
Special categories of cited documents: 'A' document defining the general state of the art which is not considered to be of particular relevance 'E' earlier document but published on or after the International filing date 'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) 'O' document referring to an oral disclosure, use, exhibition or other means 'P' document published prior to the international filing date but later than the priority date claimed	 "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of the actual completion of the international search	Date of mailing of the International search report
26 March 2004	02/04/2004
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentiaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Reedijk, A



Internations process No PCT/FR 03/03424

C.(Continua	tilon) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 561 343 A (LOWE ANTHONY) 1 October 1996 (1996-10-01) cited in the application claims 1-3	1-17
Α	EP 0 360 307 A (TUNGSRAM RESZVENYTARSASAG) 28 March 1990 (1990-03-28) the whole document	1
Α	EP 0 812 810 A (CORNING INC) 17 December 1997 (1997-12-17) claims	1

Internation open on No PCT/FR 03/03424

Information on patent family members

	nt document a search report	Ì	Publication date		Patent family member(s)		Publication date
DE 2	0117475	υ	18-04-2002	DE	20117475	U1	18-04-2002
US 2002035852	002035852	A1	28-03-2002	US	6558494		06-05-2003
-				US	6478911	B1	12-11-2002
			AU	9124701	Α	08-04-2002	
				WO	0227135		04-04-2002
			US	2002197423	A1	26-12-2002 	
US 6	212852	B1	10-04-2001	NONE			
WO C	123700	Α	05-04-2001	US	6336984		08-01-2002
				AU	4024301		30-04-2001
				DK	200200378		08-05-2002
				JP	2003510238		18-03-2003
				· WO	0123700		05-04-2001
				US	6291036		18-09-2001
				บร	6558494	B1	06-05-2003
				US	6641689	B1	04-11-2003
US 5561343	5561343	Α	01-10-1996	GB	2276270		21-09-1994
				EP	0616354		21-09-1994
				JP	2886436		26-04-1999
				JP	7005821		10-01-1995
			KR	139601	 RI	01-06-1998	
EP 0360307	0360307	Α	28-03-1990	HU	53242		28-09-1990
				DE	68901904	-	30-07-1992
			·	DE	68901904		17-12-1992
				EP	0360307		28-03-1990
				JP	2192432		30-07-1990 09-04-1991
				US	5006489 	. A	09-04-1991
FP	0812810	Α	17-12-1997	US	5721802		24-02-1998
		••	_: ··	AU	715433		03-02-2000
			AU	2466797		18-12-1997	
			BR	9703542	2 A	08-09-1998	
				CA	2204480		13-12-1997
			CN	1196491	. A	21-10-1998	
			DE	69701593		11-05-2000	
			DE	69701593		27-07-2000	
			DK	812810		17-07-2000	
			EP	0812810		17-12-1997	
			ES	2144292		01-06-2000	
			JP	10073740		17-03-1998	
				US	6122430		19-09-2000
				US	5926599	PΑ	20-07-1999